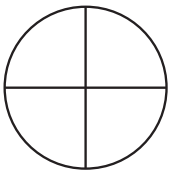
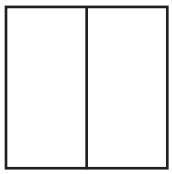
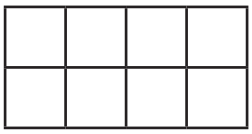
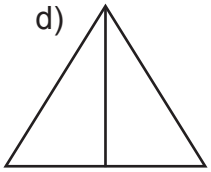
Brüche zeichnen

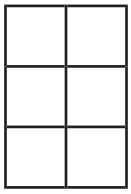
1. Die ganze Figur steht für 1. Zeichne in jede Figur farbig den Bruch $\frac{1}{2}$ ein.

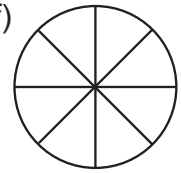
a) 

b) 

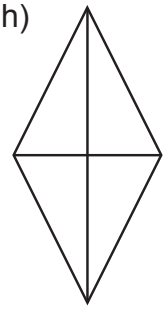
c) 

d) 

e) 

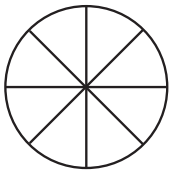
f) 

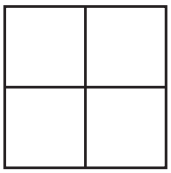
g) 

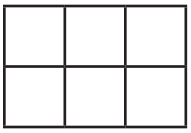
h) 

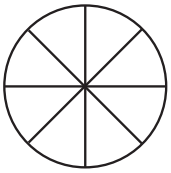
2. Es gibt viele Möglichkeiten, den Bruch $\frac{1}{4}$ zu zeichnen. Finde 3 und zeichne sie auf.

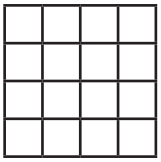
3. Berechne die Brüche und zeichne ein.

a) $\frac{1}{2} + \frac{1}{2}$ 

b) $\frac{1}{4} + \frac{1}{4}$ 

c) $\frac{1}{3} + \frac{1}{3}$ 

d) $\frac{1}{2} + \frac{1}{4}$ 

e) $\frac{2}{4} + \frac{1}{2}$ 

f) $\frac{1}{8} + \frac{3}{4}$ 

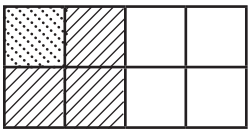
4. Stelle diese Aufgaben grafisch dar:

a) $\frac{2}{4} + \frac{2}{8}$ b) $\frac{1}{3} + \frac{1}{6}$ c) $\frac{2}{8} + \frac{2}{6}$ d) $\frac{4}{6} + \frac{1}{4}$

Mit Brüchen rechnen

1. Ermittle die Lösung grafisch und rechnerisch.

Beispiel: $\frac{1}{8} + \frac{3}{8}$



$\frac{1}{8} + \frac{3}{8} = \frac{4}{8}$

a) $\frac{1}{3} + \frac{1}{3}$

b) $\frac{2}{4} + \frac{1}{4}$

c) $\frac{3}{6} + \frac{2}{6}$

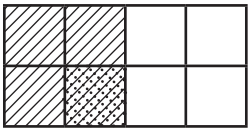
d) $\frac{5}{8} + \frac{2}{8}$

e) $\frac{3}{9} + \frac{4}{9}$

f) $\frac{2}{5} + \frac{4}{5}$

2. Ermittle die Lösung grafisch und rechnerisch.

Beispiel: $\frac{4}{8} - \frac{1}{8}$



$\frac{4}{8} - \frac{1}{8} = \frac{3}{8}$

a) $\frac{3}{4} - \frac{1}{4}$

b) $\frac{4}{6} - \frac{2}{6}$

c) $\frac{3}{3} - \frac{1}{3}$

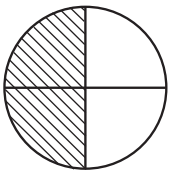
d) $\frac{7}{8} - \frac{5}{8}$

e) $\frac{6}{9} - \frac{3}{9}$

f) $\frac{6}{5} - \frac{3}{5}$

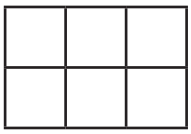
3. Wandle in den angegebenen Nenner um.

a)



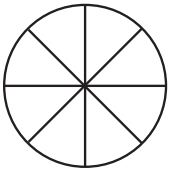
$\frac{1}{2} = \frac{}{4}$

b)



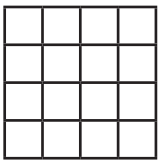
$\frac{2}{6} = \frac{}{3}$

c)



$\frac{6}{8} = \frac{}{4}$

d)



$\frac{6}{16} = \frac{}{8}$

4. Zeichne eine passende Skizze und wandle um.

a) $\frac{3}{4} = \frac{}{8}$

b) $\frac{2}{10} = \frac{}{5}$

c) $\frac{2}{3} = \frac{}{9}$

d) $\frac{5}{7} = \frac{}{14}$

5. Finde einen gemeinsamen Nenner und wandle um.

Beispiel: $\frac{1}{2}; \frac{1}{3}$

gemeinsamer Nenner: 6

$\frac{1}{2} = \frac{3}{6}$ $\quad \frac{1}{3} = \frac{2}{6}$

a) $\frac{1}{2}; \frac{1}{4}$

b) $\frac{2}{3}; \frac{1}{9}$

c) $\frac{2}{4}; \frac{1}{6}$

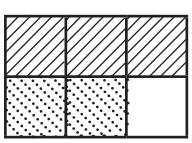
d) $\frac{3}{8}; \frac{1}{2}$

e) $\frac{4}{5}; \frac{2}{3}$

f) $\frac{3}{6}; \frac{2}{9}$

6. Zeichne die Rechnung. Wandle um und addiere.

Beispiel: $\frac{1}{2} + \frac{1}{3}$



$\frac{1}{2} + \frac{1}{3} =$

$\frac{3}{6} + \frac{2}{6} = \frac{5}{6}$

a) $\frac{1}{4}; \frac{1}{8}$

b) $\frac{1}{3}; \frac{2}{9}$

c) $\frac{2}{4}; \frac{2}{6}$

d) $\frac{3}{8}; \frac{1}{3}$

e) $\frac{1}{2}; \frac{2}{5}$

f) $\frac{2}{3}; \frac{1}{4}$